

**Figure 19.** Cross-spectral analysis of the mean annual discharge (red) of the Rio Grande at Embudo, 1915-97, and the Southern Oscillation Index (SOI, blue).  
 □ Coherency (green) is the tendency for variations observed over a given frequency band in flow to be linearly related to comparable variations observed in the SOI. Coherency values above the non-zero level are statistically significant. Tan shading highlights the range of frequencies between 4 and 6.5 years.

